

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-008740
(43)Date of publication of application : 11.01.2002

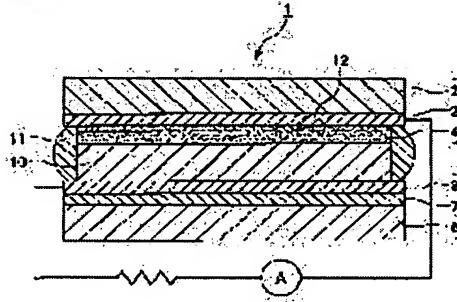
(51)Int.Cl. H01M 14/00
H01L 31/04

(21)Application number : 2000-188300 (71)Applicant : YAMAHA CORP

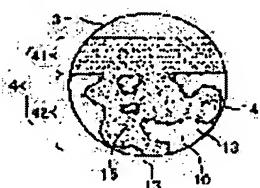
(22)Date of filing : 22.06.2000 (72)Inventor : MURAMATSU KEIICHI
KANEKO MASAHIRO

(54) DYE SENSITIZED PHOTOCELL AND ITS MANUFACTURING METHOD

(a)



(b)



(57)Abstract:

PROBLEM TO BE SOLVED: To provide a dye sensitized photocell with high adhesion of a metal oxide layer to a supporting body, and provide a manufacturing method for the dye sensitized photocell capable of simplifying coating and baking.

SOLUTION: A conductor layer 3 and a metal oxide layer 4 are formed on a substrate 2, a sensitizing dye 13 comprising a metal complex and a dye is adsorbed in the metal oxide layer 4 to form a photo-electrode 5, and the photo-electrode 5 and a counter electrode 9 obtained by forming a conductor layer 7 and reflecting layer 8 on a substrate 6 are arranged so as to face their film surfaces, and an electrolyte solution 10 is sealed between both electrodes to constitute the dye sensitized photocell 1, and the metal oxide layer 4 has two layer structure comprising a first metal oxide layer 41 having dense structure and a second metal oxide layer 42 having porous structure.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of
rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]